



US01 corrected sequence listing 02_08_07.txt
SEQUENCE LISTING

<110> Wang, Chun
Xy Li, Benjamin
Cheng, Xin
Liu, Jing
Niu, Li-Wen
Huang, Wan-Zhi
Xu, Zhen-Yu
Luo, Dan
Kang, Lian-Di
Ding, Jin-Guo
Rong, Fang
Liu, Yan
Chen, Hui-Ran

<120> Antithrombosis enzyme from the snake venom of Agkistrodon acutus

<130> 54567.8001.US01

<140> 09/938,114
<141> 2001-08-23

<150> US 60/043,886
<151> 1997-04-10

<150> US 09/058,740
<151> 1998-04-10

<160> 13

<170> PatentIn version 3.3

<210> 1
<211> 544
<212> DNA
<213> Agkistrodon acutus

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tttgtggcc agttgattgc tcagaagata aagttagcca aaatccatgt ctggatcgga 180
ctgagggctc aaaacaaaga aaagcaatgc agcatagagt ggagcgatgg ctccagcatc 240
agttatgaga attggattga agaagaatcc aaaaagtgtc ttgggttgca catagagaca 300
gggtttcata agtgggagaa ttttactgt gaacaacaag atcctttgt ctgcgaggca 360
tagtctgaag atccagctga ttgaagtctg gagaagcaag gaagcccccc accccatccc 420
ccaaaccctgc ctagccacaa tctctgctat gcacccttg ctcaacggat gctctctgta 480
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aaaa 544

<210> 2
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<212> PRT

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<213> Agkistrodon acutus

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Asp Cys Ser Ser Asp Trp Ser Ser Tyr Glu Gly His Cys Tyr Lys Val
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Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe Cys Thr Lys
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Gln Val Asn Gly Gly His Leu Val Ser Ile Glu Ser Ser Gly Glu Ala
35 40 45

Asp Phe Val Gly Gln Leu Ile Ala Gln Lys Ile Lys Ser Ala Lys Ile
50 55 60

His Val Trp Ile Gly Leu Arg Ala Gln Asn Lys Glu Lys Gln Cys Ser
65 70 75 80

Ile Glu Trp Ser Asp Gly Ser Ser Ile Ser Lys Glu Asn Trp Ile Glu
85 90 95

Glu Glu Ser Lys Lys Cys Leu Gly Val His Ile Glu Thr Gly Phe His
100 105 110

Lys Trp Glu Asn Phe Tyr Cys Glu Gln Gln Asp Pro Phe Val Cys Glu
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Ala

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<210> 4
<211> 17
<212> PRT
<213> Agkistrodon acutus

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Asp Cys Pro Ser Glu Trp Ser Ser Tyr Glu Gly Phe Cys Tyr Lys Pro
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5 US01 corrected sequence listing 02_08_07.txt
10 15

Phe

<210> 5
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<213> Agkistrodon acutus

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Ser Leu Ser Gly Thr Ala Ala
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<213> Agkistrodon acutus

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Tyr Glu Gly His Cys Tyr
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<212> DNA
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<210> 8
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<220>
<223> Synthetic PCR primer

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<210> 9
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<212> DNA
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<223> Synthetic PCR primer

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<222> (217)..(226)
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ctc tcc ctg agt gga act gca gct gat tgt ccc tct gag tgg tcc tcc 95
Leu Ser Leu Ser Gly Thr Ala Ala Asp Cys Pro Ser Glu Trp Ser Ser
20 25 30

tat gaa ggg cat tgc tac aag ccc ttc gat gaa cct aag acc tgg gca 143
Tyr Glu Gly His Cys Tyr Lys Pro Phe Asp Glu Pro Lys Thr Trp Ala
35 40 45

gat gca gag aaa ttc tgc aca caa cac aaa ggc agc cat ctg cct 191
Asp Ala Glu Lys Phe Cys Thr Gln Gln His Lys Gly Ser His Leu Pro
50 55 60

ctc aca gca gtg aga gcg att gtg tnn nnn nnn nnt ggt cac gtt gac 239
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His	Thr	Lys	Leu	Lys	Leu	Ile	Ser	Leu	Ile	Gly	Leu	Lys	Asn	Ile	Trp	
80					85				90					95		
aac	gga	tgc	tac	tgg	aag	tgg	agc	gat	ggc	acc	aag	ctc	gac	tac	aaa	335
Asn	Gly	Cys	Tyr	Trp	Lys	Trp	Ser	Asp	Gly	Thr	Lys	Leu	Asp	Tyr	Lys	
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Asp	Trp	Arg	Glu	Gln	Phe	Glu	Cys	Leu	Val	Ser	Arg	Thr	Val	Asn	Asn	
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gaa	tgg	cta	agt	atg	gac	tgc	ggc	act	act	tgc	tct	ttc	gtc	tgc	aag	431
Glu	Trp	Leu	Ser	Met	Asp	Cys	Gly	Thr	Thr	Cys	Ser	Phe	Val	Cys	Lys	
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ttc	cag	gca	tagtctgaag	acta												454
Phe	Gln	Ala														
		145														